

EXECUTIVE SUMMARY - NEW PERMIT

Mine Name: Quarry Antone I. D. No.: M/045/021
Operator: Utah Portland Quarries Inc. County: Tooele
P.O. Box 1469 New/Existing: New
S.L.C., Utah 84110 Mineral Ownership: Operator
Telephone: 801-263-3011 Surface Ownership: Operator
Contact Person: Mr. Tom Saunder Lease No.(s): N/A
Life of Mine: 10 Years Permit Term: 5 Years
Legal Description: NE 1/4 Section 18, NW 1/4 Section 17, SW 1/4 Section 8;
Township 2 South, Range 6 West, SLBM, Tooele County, Utah
Mineral(s) to be Mined: Shale ~~stone~~
Mining Methods: Surface Mine
Acres to be Disturbed: 13.3 acres
Present Land Use: Rangeland and mining
Postmining Land Use: Rangeland
Variances from Reclamation Standards (Rule M-10) Granted: M-10(5) Highwalls
and M-10(12) Revegetation

Soils and Geology:

Soil Description: Upland gravelly loam
pH: 7.7
Special Handling Problems: Slight to moderate erosion hazard
Geology Description: Mississippian age Great Blue Limestone/Manning
Canyon Shale. Dip of beds is approximately 70 degrees

Hydrology:

Ground Water Description: Water table is located below the zone of mining.
Surface Water Description: An ephemeral drainage crossing the mine site
will be diverted around the operation and adequately protected from
erosion. No perennial water is found on the permit area.
Water Monitoring Plan: None required.

Ecology:

Vegetation Type(s); Dominant Species: Sagebrush, Sanberg bluegrass,
Bluebunch Wheatgrass, Juniper, and Needle and thread grass
Percent Surrounding Vegetative Cover: 65 percent
Wildlife Concerns: No significant concerns identified.
Surface Facilities: None proposed.
Mining and Reclamation Plan Summary: See attached summary

Surety:

Amount: \$ 32,800.00 (1992 dollars)
Form: Reclamation Bond
Renewable Term: 5 years

ATTACHMENT

Mining and Reclamation Plan
New Permit Application, Quarry Antone

Utah Portland Quarries, Inc.
M/045/021
Tooele County, Utah

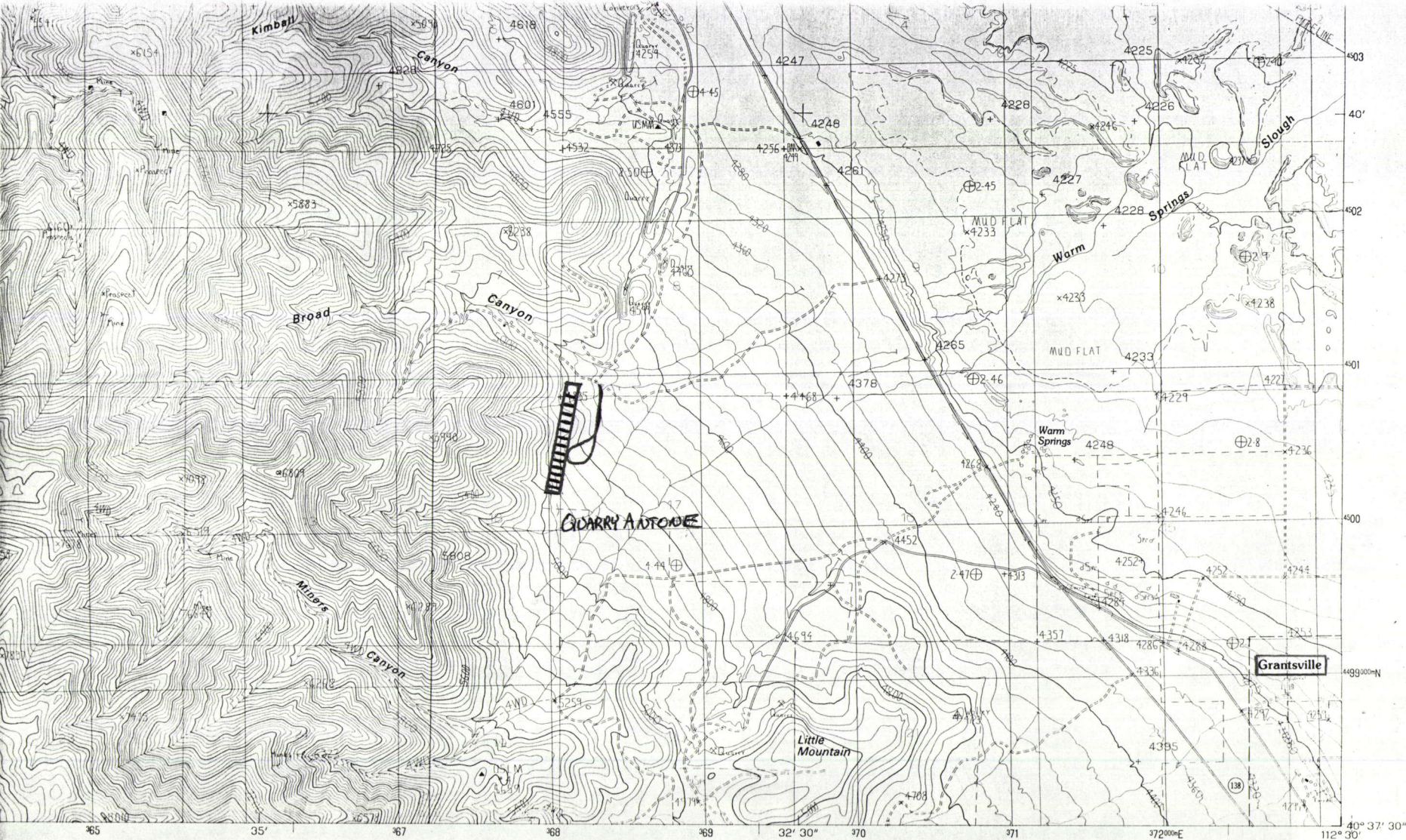
July 3, 1987

During Operations:

- 1) Utah Portland Quarries, Inc. will develop and operate a 10 year open pit shale quarry. Open pit mining will proceed from south to north. Two to four feet of overburden material will be removed with dozers and stockpiled for reclamation. The shale deposit will then be mined to a depth of approximately 70 feet utilizing dozers with rippers and front-end loaders.
- 2) The operation will disturb approximately three acres initially and five additional acres every five years.
- 3) Prior to each mining advance, topsoil will be stripped, stockpiled, and protected from erosion.
- 4) Mined rock will be transported by truck to Salt Lake City for processing. There will be no waste piles, buildings, foundations, sewage or any associated facilities located on the mine site.

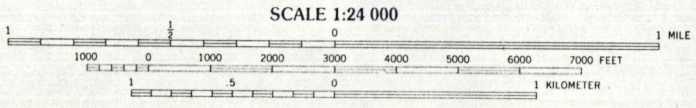
Following Operations:

- 1) All equipment and extraneous debris will be removed from the minesite.
- 3) All disturbed areas, including roads, pads and benches will be stabilized and graded to a rounded configuration with slopes not exceeding 2(H):1(V). Highwalls will be left in a stable condition.
- 4) Upon reclamation, the stockpiled topsoil will be spread over all disturbed areas including the terraced benches.
- 5) Standard agronomic practices will be used to prepare the seedbed for drill and/or broadcast seeding. Disturbed areas will be reclaimed with native vegetative species.

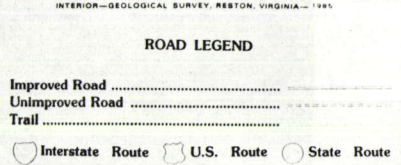
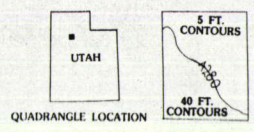


KEY
NOAA
1980
1985
ONIC
NE 12
ZONE
WEST
EAST
1929
UTUM
NOVE

NORTH



CONTOUR INTERVAL 5 AND 40 FEET



PROVISIONAL MAP
Produced from original manuscript drawings. Information shown as of date of field check.

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO. 80225
OR RESTON, VIRGINIA 22092

1	2	3
4		5
6	7	8

ADJOINING 7.5 QUADRANGLE NAMES

- 1 Poverty Point
- 2 Corral Canyon
- 3 Plug Peak
- 4 Tiampo
- 5 Burnwater
- 6 Salt Mountain
- 7 North Willow Canyon
- 8 Grantsville

FLUX, UTAH
PROVISIONAL EDITION 1985

40112-F5-TF-024